



NZ/QC/YPD/T&F-W4/2018-19/P3-G6

Date: 30-04-2018

TEST REPORT ON GRANULAR SUBBASE MIX (GRADATION TEST)

Sub: To conduct tests on GSB (with close graded materials, Grade-II) mix.

{Project*: **Package-3** 1.Improvements to Roads And Drains at 4th ,5th, 6th ,7th Cross Road at Judicial Layout in ward no.04. 2.Improvements to Roads And Drains at 2nd ,3rd 4th and 5th 6th 7th main roads at Judicial Layout in ward no.04. 3.Improvements to Roads And Drains SFS , B sector opposite RTO Shopping Complex in ward no 04. 4.Improvements to Roads And Drains main and cross of Someshwara nagara in ward no 04. 5.Improvements to Roads And Drains balance main and cross roads of B sector in ward no 04.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
26.50	96.55	70-100
9.50	72.40	50-80
4.75	56.80	40-65
2.36	48.75	30-50
0.425	13.20	10-15
0.075	4.05	<5

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For Newzen Consultants Bangalore

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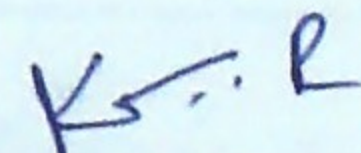


Date: 30-04-2018

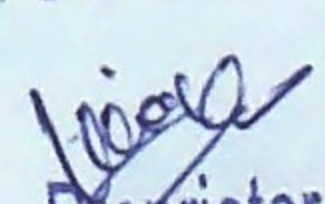
TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	0.38 %	Not more than 2.0 %
2.	Liquid Limit, %	20.68	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	6.05	-----
5.	Aggregate Impact Value, %	26.57	Not more than 40.00 %

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NZ/QC/YPD/T&F-W4/2018-19/P3-W1

Date: 28-04-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: **Package-3** 1.Improvements to Roads And Drains at 4th ,5th, 6th ,7th Cross Road at Judicial Layout in ward no.04. 2.Improvements to Roads And Drains at 2nd ,3rd 4th and 5th 6th 7th main roads at Judicial Layout in ward no.04. 3.Improvements to Roads And Drains SFS , B sector opposite RTO Shopping Complex in ward no 04. 4.Improvements to Roads And Drains main and cross of Someshwara nagara in ward no 04. 5.Improvements to Roads And Drains balance main and cross roads of B sector in ward no 04.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

TEST RESULTS

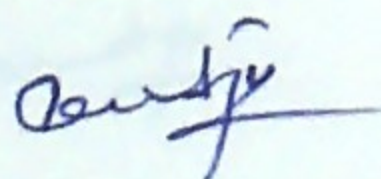
1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	98.60	95-100
26.50	---	-
22.40	75.45	60-80
11.20	58.25	40-60
4.75	36.45	25-40
2.36	24.05	15-30
0.600	19.60	8-22
0.075	4.20	0-5

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Date: 28-04-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	25.64 %	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	26.79%	Not more than 35.0 %
3.	Water absorption, %	0.37 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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NZ/QC/YPD/T&F-W4/2018-19/P3-W2

Date: 30-04-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: **Package-3** 1.Improvements to Roads And Drains at 4th ,5th, 6th ,7th Cross Road at Judicial Layout in ward no.04. 2.Improvements to Roads And Drains at 2nd ,3rd 4th and 5th 6th 7th main roads at Judicial Layout in ward no.04. 3.Improvements to Roads And Drains SFS , B sector opposite RTO Shopping Complex in ward no 04. 4.Improvements to Roads And Drains main and cross of Someshwara nagara in ward no 04. 5.Improvements to Roads And Drains balance main and cross roads of B sector in ward no 04.}

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TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.35	95-100
26.50	---	-
22.40	74.05	60-80
11.20	56.80	40-60
4.75	34.60	25-40
2.36	24.35	15-30
0.600	18.50	8-22
0.075	4.30	0-5

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Date: 30-04-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	25.32 %	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	26.18 %	Not more than 35.0 %
3.	Water absorption, %	0.36 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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NZ/QC/YPD/T&F-W4/2018-19/P3-W3

Date: 03-05-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Package-3} 1.Improvements to Roads And Drains at 4th ,5th, 6th ,7th Cross Road at Judicial Layout in ward no.04. 2.Improvements to Roads And Drains at 2nd ,3rd 4th and 5th 6th 7th main roads at Judicial Layout in ward no.04. 3.Improvements to Roads And Drains SFS , B sector opposite RTO Shopping Complex in ward no 04. 4.Improvements to Roads And Drains main and cross of Someshwara nagara in ward no 04. 5.Improvements to Roads And Drains balance main and cross roads of B sector in ward no 04.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
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Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

TEST RESULTS

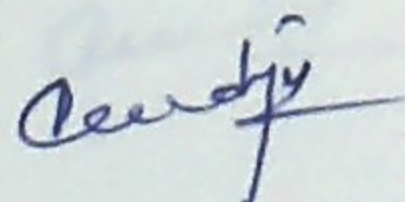
1. Gradation Test:

TABLE 1.1

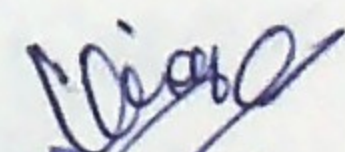
Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	95.80	95-100
26.50	---	-
22.40	74.00	60-80
11.20	58.25	40-60
4.75	36.15	25-40
2.36	23.00	15-30
0.600	19.55	8-22
0.075	3.90	0-5

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Date: 03-05-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	26.18 %	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	27.68%	Not more than 35.0 %
3.	Water absorption, %	0.38 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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NZ/QC/YPD/T&F-W4/2018-19/P3-W4

Date: 05-05-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: **Package-3** 1.Improvements to Roads And Drains at 4th ,5th, 6th ,7th Cross Road at Judicial Layout in ward no.04. 2.Improvements to Roads And Drains at 2nd ,3rd 4th and 5th 6th 7th main roads at Judicial Layout in ward no.04. 3.Improvements to Roads And Drains SFS , B sector opposite RTO Shopping Complex in ward no 04. 4.Improvements to Roads And Drains main and cross of Someshwara nagara in ward no 04. 5.Improvements to Roads And Drains balance main and cross roads of B sector in ward no 04.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	98.75	95-100
26.50	---	-
22.40	75.15	60-80
11.20	58.45	40-60
4.75	38.20	25-40
2.36	23.60	15-30
0.600	19.45	8-22
0.075	3.80	0-5

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Date: 05-05-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	25.84%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	26.71%	Not more than 35.0 %
3.	Water absorption, %	0.38 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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NZ/QC/YPD/T&F-W4/2018-19/P3-W5

Date: 07-05-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: **Package-3** 1.Improvements to Roads And Drains at 4th ,5th, 6th ,7th Cross Road at Judicial Layout in ward no.04. 2.Improvements to Roads And Drains at 2nd ,3rd 4th and 5th 6th 7th main roads at Judicial Layout in ward no.04. 3.Improvements to Roads And Drains SFS , B sector opposite RTO Shopping Complex in ward no 04. 4.Improvements to Roads And Drains main and cross of Someshwara nagara in ward no 04. 5.Improvements to Roads And Drains balance main and cross roads of B sector in ward no 04.}

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Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

TEST RESULTS

1. Gradation Test:

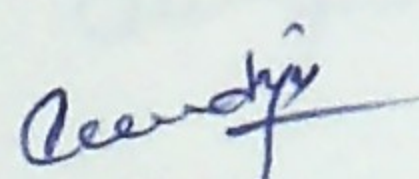
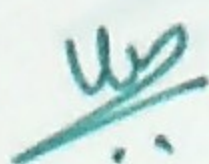
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.15	95-100
26.50	---	-
22.40	75.65	60-80
11.20	58.90	40-60
4.75	36.35	25-40
2.36	24.75	15-30
0.600	18.95	8-22
0.075	4.55	0-5

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Date: 07-05-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	25.16 %	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	26.34 %	Not more than 35.0 %
3.	Water absorption, %	0.36 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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NZ/QC/YPD/T&F-W4/2018-19/P3-W6

Date: 10-05-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: **Package-3** 1.Improvements to Roads And Drains at 4th ,5th, 6th ,7th Cross Road at Judicial Layout in ward no.04. 2.Improvements to Roads And Drains at 2nd ,3rd 4th and 5th 6th 7th main roads at Judicial Layout in ward no.04. 3.Improvements to Roads And Drains SFS , B sector opposite RTO Shopping Complex in ward no 04. 4.Improvements to Roads And Drains main and cross of Someshwara nagara in ward no 04. 5.Improvements to Roads And Drains balance main and cross roads of B sector in ward no 04.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
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TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	98.60	95-100
26.50	---	-
22.40	73.00	60-80
11.20	56.35	40-60
4.75	35.45	25-40
2.36	24.15	15-30
0.600	19.05	8-22
0.075	4.10	0-5

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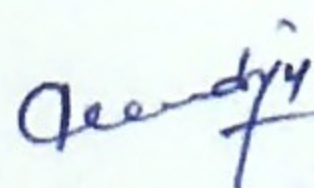
Date: 10-05-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	26.33 %	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	26.89%	Not more than 35.0 %
3.	Water absorption, %	0.38 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

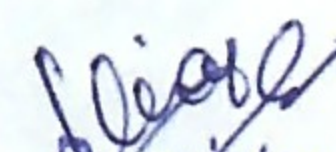
Page No. 2/2


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For Newzen Consultants Bangalore


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NZ/QC/YPD/T&F-W4/2018-19/P3-W7

Date: 14-05-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: **Package-3** 1.Improvements to Roads And Drains at 4th ,5th, 6th ,7th Cross Road at Judicial Layout in ward no.04. 2.Improvements to Roads And Drains at 2nd ,3rd 4th and 5th 6th 7th main roads at Judicial Layout in ward no.04. 3.Improvements to Roads And Drains SFS , B sector opposite RTO Shopping Complex in ward no 04. 4.Improvements to Roads And Drains main and cross of Someshwara nagara in ward no 04. 5.Improvements to Roads And Drains balance main and cross roads of B sector in ward no 04.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.35	95-100
26.50	---	-
22.40	75.15	60-80
11.20	58.20	40-60
4.75	35.20	25-40
2.36	23.00	15-30
0.600	17.45	8-22
0.075	4.10	0-5

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